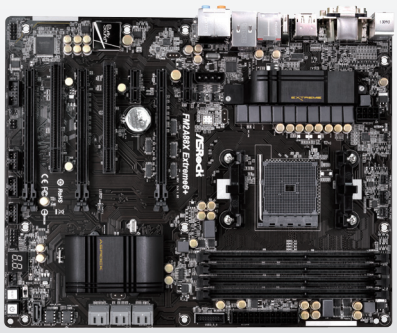
FM2A88X EXTREME6+

AMD A88X (Bolton-D4)

ASROCK



Product Brief

- A-Style : Home Cloud, Purity Sound™, HDMI-In
- Supports Socket FM2+ 95W / FM2 100W processors
- Premium Gold Capacitor Design, Digi Power, 8 + 2 Power Phase Design
- Supports Dual Channel DDR3 2600+(OC)
- 2 x PCIe 3.0 x16, 1 x PCIe 2.0 x16, 2 x PCIe 2.0 x1, 2 x PCI
- Supports AMD Quad CrossFireX, 3-Way CrossFireX, CrossFireX and Dual Graphics
- Integrated AMD Radeon HD 8000/7000 series graphics in A-series APU
- Multi-VGA Output Options : D-Sub, DVI-D, HDMI, DisplayPort
- Supports Quad Monitor with FM2+ CPU.
- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec), Supports DTS Connect
- 7 x SATA3, 1 x eSATA, 6 x USB 3.0 (2 Front, 4 Rear), 8 x USB 2.0
- Supports A-Tuning, XFast 555, X-Boost, Easy Driver Installer, FAN-Tastic Tuning, USB Key

FM2/FM2+ APU Support

Premium Gold Caps

Digi Power

8+2 Power Phase Design

Quad Monitor

X-Boost

Detail Specification

Platform	- ATX Form Factor - Premium Gold Capacitor design
A-Style	- Home Cloud - Purity SoundTM - HDMI-In
CPU	- Supports Socket FM2+ 95W / FM2 100W processors - Digi Power design - 8 + 2 Power Phase design
Chipset	- AMD A88X (Bolton-D4)
Memory	- Dual Channel DDR3 Memory Technology - 4 x DDR3 DIMM Slots - Supports DDR3 2600+(OC)/2400(OC)/2133/1866/1600/1333/1066 non-ECC, un-buffered memory * DDR3 2600+ is only supported with two DIMMs. - Max. capacity of system memory: 64GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 - Supports AMD Memory Profile (AMP)
Expansion Slot	- 2 x PCI Express 3.0 x16 Slots (PCIE2/PCIE4: single at x16 (PCIE2); dual at x8 (PCIE2) / x8 (PCIE4)) * PCIE 3.0 is only supported with FM2+ CPU. With FM2 CPU, it only supports PCIE 2.0. - 1 x PCI Express 2.0 x16 Slot (PCIE5 @ x4 mode) - 2 x PCI Express 2.0 x1 Slots - 2 x PCI Slots - Supports AMD Quad CrossFireX™, 3-Way CrossFireX™, CrossFireX™ and Dual Graphics
Graphics	- Integrated AMD Radeon HD 8000/7000 series graphics in A-series APU - DirectX 11.1, Pixel Shader 5.6 with FM2+ CPU. DirectX 11, Pixel Shader 5.0 with FM2 CPU. - Max. shared memory 2GB - Four VGA output options: D-Sub, DVI-D, HDMI and DisplayPort Ports - Supports Quad Monitor with FM2+ CPU. Supports Triple Monitor with FM2 CPU. - Supports HDMI Technology with max. resolution up to 1920x1200 @ 60Hz - Supports Dual-link DVI-D with max. resolution up to 2560x1600 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports DisplayPort 1.2 with max. resolution up to 4K x 2K (4096x2400) @ 60Hz or 4K x 2K (4096x2160) @ 60Hz - Supports DP++ - Supports Multi-Streaming - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports Blu-ray Stereoscopic 3D with HDMI Port - Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jitter reduction on home/online video - Supports HDCP with DVI-D, HDMI and DisplayPort Ports - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D, HDMI and DisplayPort Ports

Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec)
	- Premium Blu-ray Audio support
	- Supports Purity Sound™
	  - 115dB SNR DAC with Differential Amplifier
	  - TI® NE5532 Premium Headset Amplifier (Supports up to 600 ohm headsets)
	  - Direct Drive Technology
	  - EMI Shielding Cover
	  - PCB Isolate Shielding
	- Supports DTS Connect

LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Qualcomm® Atheros® AR8171 - Supports Qualcomm® Atheros® Security Wake On Internet Technology - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI-Out Port - 1 x HDMI-In Port - 1 x DisplayPort - 1 x Optical SPDIF Out Port - 2 x USB 2.0 Ports - 1 x eSATA Connector - 2 x USB 3.0 Ports (AMD A88X (Bolton-D4)) - 2 x USB 3.0 Ports (ASMedia ASM1042) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone

Storage	- 7 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 5 and RAID 10),NCQ, AHCI and Hot Plug
Connector	- 1 x IR Header - 1 x COM Port Header - 1 x Chassis Intrusion Header - 1 x Power LED Header - 2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin) - 3 x Chassis Fan Connectors (1 x 4-pin, 2 x 3-pin) - 1 x Power Fan Connector (3-pin) - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 1 x XFire Power Connector - 1 x Front Panel Audio Connector - 3 x USB 2.0 Headers (Support 6 USB 2.0 ports) - 1 x USB 3.0 Header by AMD A88X (Bolton-D4) (Supports 2 USB 3.0 ports) - 1 x Dr. Debug with LED - 1 x Power Switch with LED - 1 x Reset Switch with LED - 1 x BIOS Selection Switch
BIOS Feature	- 2 x 64Mb AMI UEFI Legal BIOS with multilingual GUI support (1 x Main BIOS and 1 x Backup BIOS) - Supports Secure Backup UEFI Technology - Supports "Plug and Play" - ACPI 1.1 Compliant wake up events - Supports jumperfree - SMBIOS 2.3.1 support - DRAM, VDDP, VDDR Voltage multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar, Start8 (30 days trial)
Unique Feature	- ASRock A-Tuning - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock XFast USB - ASRock XFast LAN - ASRock XFast RAM - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock Internet Flash - ASRock UEFI System Browser - ASRock UEFI Tech Service - ASRock Dehumidifier Function - ASRock Easy RAID Installer - ASRock Easy Driver Installer - ASRock Interactive UEFI - ASRock Fast Boot - ASRock X-Boost - ASRock Restart to UEFI - ASRock USB Key - ASRock FAN-Tastic Tuning - Hybrid Booster: - ASRock U-COP
Hardware Monitor	- CPU temperature sensing - Chassis temperature sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU/Chassis Quiet Fan - CPU/Chassis Fan multi-speed control - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit / XP 32-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 4 x SATA Data Cables

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

Home Cloud

This motherboard supports Security Wake On Internet Technology with the onboard Qualcomm® Atheros® LAN, so you can connect with your PC from anywhere in the world. You will be able to power your PC on or turn it off, monitor and take control of it remotely with another smartphone, tablet or computer.

Mail
Keep your stored mail near at hand whenever you need it.

Documents
Access or send files remotely anywhere.

TV
Watch your favorite local TV programs by connecting to your PC.

Multimedia
Stream your secret stash of vids, music and pics.

Home Cloud

Remote Desktop
Anytime,
Anywhere

Monitor
Keep an eye on your pets or children when you are away from home.

POWERED BY QUALCOMM

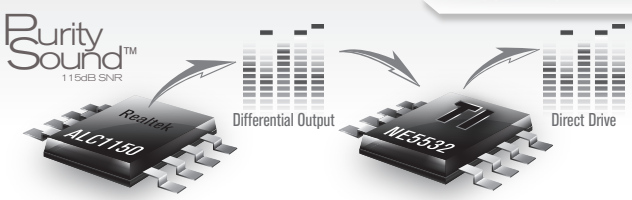
SUPPORTED BY Sunlogin

Purity Sound™
115dB SNR

Purity Sound™ is a combination of several hardware, software audio solutions and technologies that will satisfy even the pickiest audiophiles.

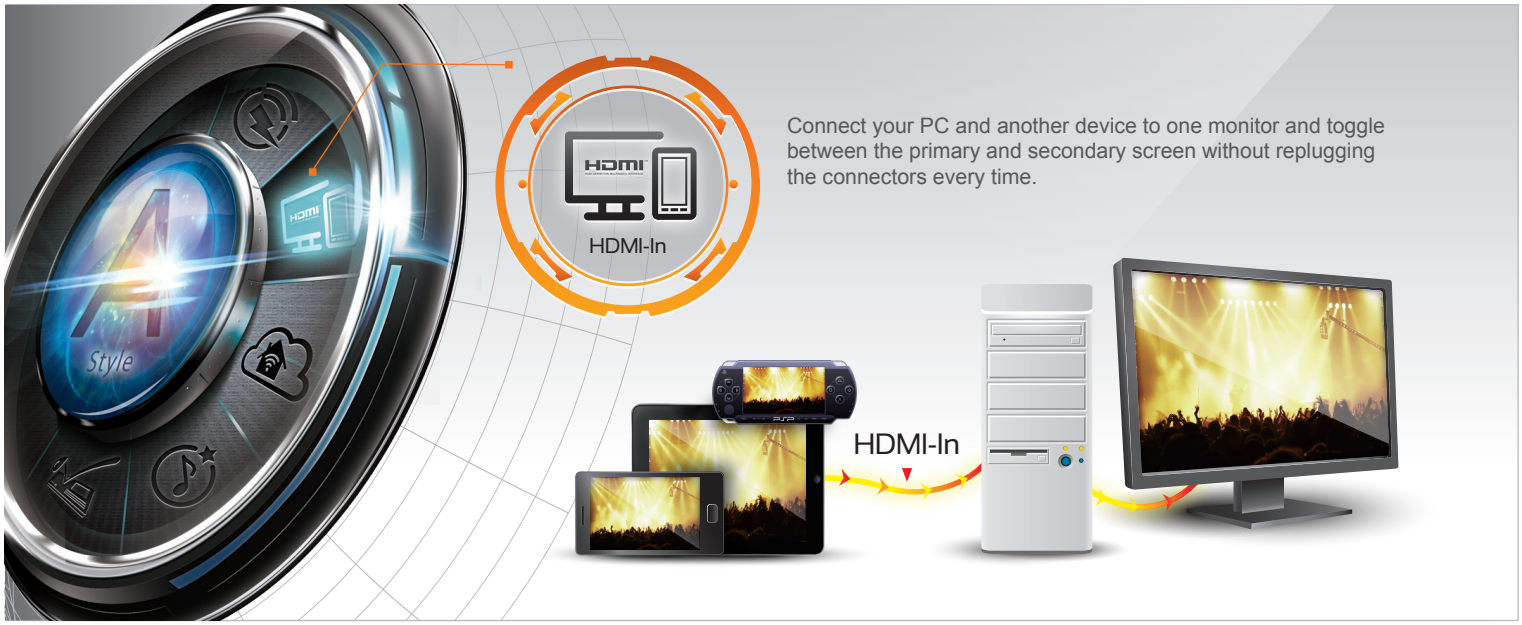
Purity Sound™ brings you:

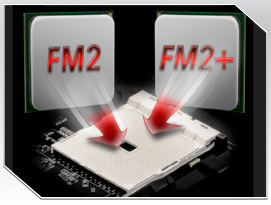
- 115dB SNR
- Excellent Bass
- Less Sound Distortion
- More Details
- Supports up to 600ohm headphones



115dB SNR Differential Codec

115dB SNR Differential Amplifier


HDMI-In
Connect your PC and another device to one monitor and toggle between the primary and secondary screen without replugging the connectors every time.
HDMI-In

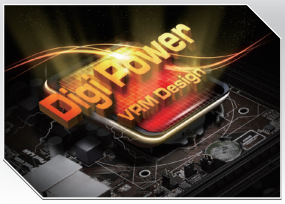


FM2/FM2+ APU Support

This motherboard is compatible with both AMD FM2 and FM2+ APUs. Please note that some new features may be only supported by FM2+ APUs.

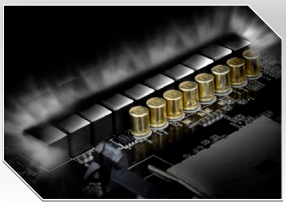
Premium Gold Caps

Premium Gold Caps are 100% made in Japan; these solid capacitors are sleek, high gloss caps with a premium gold coating representing long life and stable performance.



Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock motherboard can provide CPU Vcore voltage more efficiently and smoothly.



8+2 Power Phase Design

Designed with a 8 + 2 Power Phase Design, this motherboard features sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capabilities and enhanced performance with the lowest temperature for advanced gamers as well.

4K/2K

4K is a new standard for display resolutions with a minimum of 3840 x 2160 pixels, which is twice the horizontal and vertical resolution of the 1080p format and four times as many pixels overall.

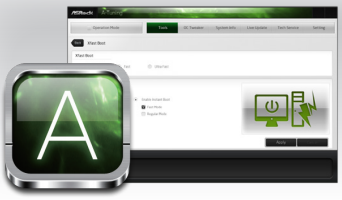
Quad Monitor

This motherboard supports Quad Monitor with FM2+ APUs. You may choose up to four display interfaces to connect monitors and use them simultaneously.

Next-Gen PCIe 3.0

- Higher bit rate - 8.0GT/s
- Higher bandwidth per lane - 1GB/s
- Higher efficiency - 98.5% encoding efficiency
- 100% backward compatible with previous PCI-E 2.0 / 1.0 standard

Note: PCI-E 3.0 supported with FM2+ APUs



A-Tuning

A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM, OC Tweaker and a whole lot more.

X-Boost

Brilliantly designed for smart overclocking, ASRock X-Boost Technology is able to unleash the hidden powers of your CPU. Simply press "X" when turning on the PC, X-Boost will automatically overclock the relative components to get up to 15.77% performance boost!

XFast 555

ASRock's unique XFast 555 Technology (XFast RAM, XFast LAN, and XFast USB) allows users to experience 5 times performance boost in terms of system performance, LAN speed and USB transfer speed.